

PTO/SB/08A (10-01)

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Substitute for form 1449/APTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/054,536
				Filing Date	January 22, 2002
				First Named Inventor	Nobutaka Wakamiya
				Art Unit	1645
				Examiner Name	S. Devi
Sheet	1	of	2	Attorney Docket Number	19036/36614A

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
SD	A1*	5,270,199	12/14/93	Ezekowitz	435/240.2

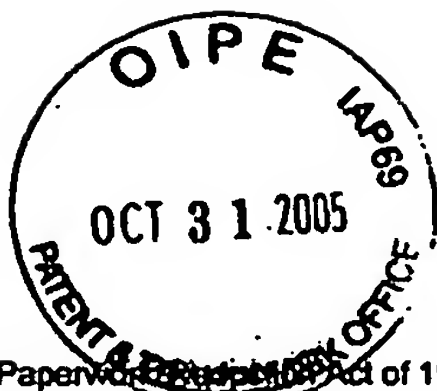
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ² -Number ² -Kind Code ³ (if known)				
SD	B1*	WO 8901519	02/23/89			
SD	B2*	JP 2-504581 based on WO 8901519 (Japanese with English Abstract translation)				✓
SD	B3*	WO 98/55614	12/10/98			

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
SD	C1*	Epstein, et al., "The collectins in innate immunity," <i>Current Opinion in Immunology</i> , 8:29-35 (1996).	
	C2*	Ezekowitz, R.A.B. et al.; "A Human Mannose-binding Protein is an acute-phase Reactant that Shares Sequence Homology with Other Vertebrate Lectins," <i>J. Exp. Med.</i> , 167:1034-1046 (March, 1988).	
	C3*	Ezekowitz, R.A.B. et al., "Mannose-binding protein and susceptibility to chronic hepatitis B infection," <i>The Lancet</i> , 348:1396-1397 (November, 1996).	
	C4*	Fujita, T., "Complement activation and Lectin Pathway," <i>Rinsho-Meneki</i> , 29(3):405-410 (1997). (Japanese with English abstract translation)	✓
	C5*	Garred, et al., "Susceptibility to HIV infection and progression of AIDS in relation to variant alleles of mannose-binding lectin," <i>The Lancet</i> , 349:236-240 (January, 1997).	
	C6*	Kawai, et al., "Cloning and characterization of a cDNA encoding bovine mannan-binding protein," <i>Gene</i> , 186(2):161-165 (February, 1997).	
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	C8*	Lim, et al., "Primary Structure of Bovine Collectin-43 (CL-43) Comparison with conglutinin and lung surfactant protein-D," <i>J. Biol. Chem.</i> , 269(16):11820-11824 (April, 1994).	
	C9*	Lipscombe, et al., "Mutations in the Human Mannose-Binding Gene: Frequencies in several population groups," <i>European Journal of Human Genetics</i> , 4(1):13-19 (1996).	
	C10*	Lu, et al., "Purification, characterization and cDNA cloning of human lung surfactant protein D," <i>Biochem. J.</i> , 284:795-802 (1992).	
SD	C11*	Malhortra, et al., "Interaction of C1q receptor with lung surfactant protein A", <i>Eur. J. Immun.</i> , 22:1437-1445 (1992).	

Examiner Signature	SD	Date Considered	November 05
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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				Group Art Unit	1645
				Examiner Name	S. Devi
Sheet	2	of	2	Attorney Docket Number	19036/36614A

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.

SD	C12*	Malhortra, et al., "Glycosylation changes of IgG associated with rheumatoid arthritis can activate complement via the mannose-binding protein," <i>Nature Medicine</i> , 1(3); 237-243 (March, 1995).		
	C13*	Matsuda, et al., "Involvement of Mannan Binding Protein with crisis and progression of IgA nephrosis," <i>Journal of Nephrology Association of Japan</i> , 39(3):235 (1997). (Japanese with English abstract translation)	✓	
	C14*	Nepomuceno, et al., "cDNA Cloning and Primary Structure Analysis of ClqR _p , the Human CI1/MBL/SPA Receptor That Mediates Enhanced Phagocytosis in Vitro," <i>Immunity</i> , 6(2):119-129 (February, 1997)		
	C15*	Sastry, et al., "The Human Mannose-binding Protein Gene: Exon Structure Reveals its Evolutionary Relationship to a Human Pulmonary Surfactant Gene and Localization to Chromosome 10," <i>J. Exp. Med.</i> , 170:1175-1189 (October, 1989).		
	C16*	Sumiya, et al., "Molecular basis of opsonic defect in immunodeficient children," <i>Lancet</i> , 337:1569-1570 (June, 1991).		
	C17*	Sumiya, et al., "Mannose-binding protein, genetic variant and the risk of infection," <i>Q. J. Med.</i> , 89:723-726 (1996).		
	C18*	Super, et al., "Association of Low Levels of Mannan-binding Protein with a Common Defect of Opsonisation," <i>Lancet</i> , 2: 1236-1239 (November, 1989)		
	C19*	Suzuki et al., "Cloning and Sequencing of a cDNA Coding for Bovine Conglutinin," <i>Biochem Biophys Res Commun</i> , 191/2, 335-342 (1993).		
	C20*	Suzuki et al., "Characterization of Recombinant Bovine Conglutinin Expressed in a Mammalian Cell," <i>Biochem Biophys Res Commun</i> , 238, 856-863 (1997).		
	C21*	Taylor, et al., "Structure and evolutionary origin of the gene encoding a human serum mannose-binding protein," <i>Biochem J.</i> , 262: 763-771 (1989).		
	C22*	Thomas, et al., "Mutation of gene for mannose-binding protein associated with chronic hepatitis B viral infection," <i>Lancet</i> , 348: 14176-1419 (November, 1996).		
	C23*	Uemura, et al., "Correlation Between Structure and Function of Calcium Dependence Animal Lectin on Host Defense," <i>Jikken-Igaku</i> , 13(18) (1995). (Japanese with English abstract translation).	✓	
	C24*	Wakamiya, et al., "The Mannose Binding Protein and Conglutinin in Bovine Serum Have an Antiviral Activity Against Influenza Virus," <i>Glycoconjugate Journal</i> , 8:235 (1991).		
	C25*	Wakamiya, et al., "Isolation and Characterization of Conglutinin as an Influenza A Virus Inhibitor," <i>Biochem. Biophys. Res. Comm.</i> , 187: 1270-1278 (September, 1992).		
	C26*	Wakamiya, et al., "Anti-Viral Activity by Collectin," <i>Rinsho-Meneki</i> , 29(4); 508-513 (1997). (Japanese with English abstract translation).	✓	
SD	C27*	Eda, et al., "Characterization of Truncated Human Mannan-Binding Protein (MBP) Expressed in <i>Escherichia coli</i> ," <i>Biosci. Biotechnol. Biochem.</i> , 62(7): 1326-1331 (1998).		
Duplicate	C28*	Ma, et al., "Functional Expression of Human Mannan-Binding Proteins (MBPs) in Human Hepatoma Cell Lines Infected by Recombinant Vaccinia Virus: Post-Translational Modification, Molecular Assembly, and Differentiation of Serum and Liver MBP," <i>J. Biochem.</i> 122:810-818 (1997).		
Examiner Signature	SD		Date Considered	Nov. 05

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